

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: June 3, 2003, 10:23:23 ; Search time 18.5827 Seconds  
(without alignments)  
2304.171 Million cell updates/sec

Title: US-09-778-187B-4

Perfect score: 2197  
Sequence: 1 AAPPGRRLRLLLLSAAL.....TALINAGGONNSEKKYF 423

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 383519 seqs, 101233694 residues

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA.\*  
1: /cgn2\_6/prodata/1/pubpaa/US08\_NEW\_PUB pep.\*  
2: /cgn2\_6/prodata/1/pubpaa/PCT\_NEW\_PUB pep.\*  
3: /cgn2\_6/prodata/1/pubpaa/US06\_NEW\_PUB pep.\*  
4: /cgn2\_6/prodata/1/pubpaa/US07\_NEW\_PUB pep.\*  
5: /cgn2\_6/prodata/1/pubpaa/US07\_PUBCOMB pep.\*  
6: /cgn2\_6/prodata/1/pubpaa/US07\_PUBCOMB pep.\*  
7: /cgn2\_6/prodata/1/pubpaa/PCTUS\_PUBCOMB pep.\*  
8: /cgn2\_6/prodata/1/pubpaa/US08\_PUBCOMB pep.\*  
9: /cgn2\_6/prodata/1/pubpaa/US09\_NEW\_PUB pep.\*  
10: /cgn2\_6/prodata/1/pubpaa/US09\_PUBCOMB pep.\*  
11: /cgn2\_6/prodata/1/pubpaa/US10\_NEW\_PUB pep.\*  
12: /cgn2\_6/prodata/1/pubpaa/US10\_PUBCOMB pep.\*  
13: /cgn2\_6/prodata/1/pubpaa/US60\_NEW\_PUB pep.\*  
14: /cgn2\_6/prodata/1/pubpaa/US60\_PUBCOMB pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2197	100.0	423	US-09-778-510-22	Sequence 22, Appl
2	2197	100.0	423	US-09-778-187B-4	Sequence 4, Appl
3	2169	98.7	442	US-09-778-510-20	Sequence 20, Appl
4	2169	98.7	442	US-09-778-187B-2	Sequence 2, Appl
5	2169	98.7	442	US-09-984-130-136	Sequence 136, App
6	2149	97.8	440	US-09-944-413-61	Sequence 61, Appl
7	2149	97.8	440	US-09-944-403-61	Sequence 61, Appl
8	2149	97.8	440	US-09-944-896-61	Sequence 61, Appl
9	2149	97.8	440	US-09-944-946-61	Sequence 61, Appl
10	2149	97.8	440	US-09-944-907-61	Sequence 61, Appl
11	2149	97.8	440	US-09-944-929-61	Sequence 61, Appl
12	2149	97.8	440	US-10-174-590-34	Sequence 34, Appl
13	2149	97.8	440	US-10-176-758-34	Sequence 34, Appl
14	2149	97.8	440	US-10-173-737-34	Sequence 34, Appl
15	2149	97.8	440	US-10-173-706-34	Sequence 34, Appl
16	2149	97.8	440	US-10-175-738-34	Sequence 34, Appl
17	2149	97.8	440	US-10-175-752-34	Sequence 34, Appl
18	2149	97.8	440	US-10-176-482-34	Sequence 34, Appl
19	2149	97.8	440	US-10-176-757-34	Sequence 34, Appl

20	2149	97.8	440	US-10-176-913-34	Sequence 34, Appl
21	2149	97.8	440	US-10-180-552-34	Sequence 34, Appl
22	2149	97.8	440	US-10-180-557-34	Sequence 34, Appl
23	2149	97.8	440	US-10-173-700-34	Sequence 34, Appl
24	2149	97.8	440	US-10-174-572-34	Sequence 34, Appl
25	2149	97.8	440	US-10-174-579-34	Sequence 34, Appl
26	2149	97.8	440	US-10-174-582-34	Sequence 34, Appl
27	2149	97.8	440	US-10-174-588-34	Sequence 34, Appl
28	2149	97.8	440	US-10-175-739-34	Sequence 34, Appl
29	2149	97.8	440	US-10-175-740-34	Sequence 34, Appl
30	2149	97.8	440	US-10-175-743-34	Sequence 34, Appl
31	2149	97.8	440	US-10-176-488-34	Sequence 34, Appl
32	2149	97.8	440	US-10-176-492-34	Sequence 34, Appl
33	2149	97.8	440	US-10-176-747-34	Sequence 34, Appl
34	2149	97.8	440	US-10-176-750-34	Sequence 34, Appl
35	2149	97.8	440	US-10-176-985-34	Sequence 34, Appl
36	2149	97.8	440	US-10-176-987-34	Sequence 34, Appl
37	2149	97.8	440	US-10-176-991-34	Sequence 34, Appl
38	2149	97.8	440	US-10-176-992-34	Sequence 34, Appl
39	2149	97.8	440	US-10-176-993-34	Sequence 34, Appl
40	2149	97.8	440	US-10-184-658-34	Sequence 34, Appl
41	2149	97.8	440	US-10-173-695-34	Sequence 34, Appl
42	2149	97.8	440	US-10-173-697-34	Sequence 34, Appl
43	2149	97.8	440	US-10-173-705-34	Sequence 34, Appl
44	2149	97.8	440	US-10-174-576-34	Sequence 34, Appl
45	2149	97.8	440	US-10-174-585-34	Sequence 34, Appl

## ALIGNMENTS

```
RESULT 1
US-09-778-510-22
; Sequence 22, Application US/09778510
; Patent No. US20020164686A1
; GENERAL INFORMATION:
; APPLICANT: Baum, Peter
; TITLE OF INVENTION: Molecules Designated B7L1
; FILE REFERENCE: 2844-US
; CURRENT APPLICATION NUMBER: US/09/778,510
; PRIOR FILING DATE: 2001-02-07
; PRIOR APPLICATION NUMBER: PCT/US99/17906
; PRIOR FILING DATE: 1999-08-05
; PRIOR APPLICATION NUMBER: 60/095,663
; NUMBER OF SEQ ID NOS: 1998-08-07
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 22
; LENGTH: 423
; TYPE: PRT
; ORGANISM: Mus musculus
US-09-778-510-22

Query Match      100.0%; Score 2197; DB 9; Length 423;
Best Local Similarity 100.0%; Pred. No. 5e-128;
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 AAPPGRRLRLLLLSAALIPFGDQNLFTQDVYIEGVATISQVKNKSDSVIQLN 60
DB      1 AAPPGRRLRLLLLSAALIPFGDQNLFTQDVYIEGVATISQVKNKSDSVIQLN 60
QY      61 PRRQTIYFRDFRPLKDSRFQNLNFSSEELKVLSTVNSISDEGRYFCQLTDPQESYTTI 120
DB      61 PRRQTIYFRDFRPLKDSRFQNLNFSSEELKVLSTVNSISDEGRYFCQLTDPQESYTTI 120
QY      121 TVLVPPRNIMIDIOQDTAVGEIEVNCCTAMSKPATITRMFGKNEKLGKSEVEBSWM 180
DB      121 TVLVPPRNIMIDIOQDTAVGEIEVNCCTAMSKPATITRMFGKNEKLGKSEVEBSWM 180
QY      181 YVTVSGLMKVKKKEDGVVICOVHPATVGNLQTORVLEVOYKPOVHIOMYPIQGLTR 240
DB      181 YVTVSGLMKVKKKEDGVVICOVHPATVGNLQTORVLEVOYKPOVHIOMYPIQGLTR 240
```

QY 241 EGDAPFELTCEAIKGPQVMTWVRVDDMPQHAVLSGPNLFINNLTNGTNGTYRCEASNI 300  
|  
|  
|  
Db 241 EGDAPFELTCEAIKGPQVMTWVRVDDMPQHAVLSGPNLFINNLTNGTNGTYRCEASNI 300  
QY 301 VGRASDYMLYVVDPTTTPPTTT 360  
|  
|  
|  
Db 301 VGRASDYMLYVVDPTTTPPTTT 360  
QY 361 GVAVAVVVFAMLCIIILIGRYFARHKGTFTTHEAKGADDAADADTAIINAEAGGONNSEKK 420  
|  
|  
|  
Db 361 GVAVAVVVFAMLCIIILIGRYFARHKGTFTTHEAKGADDAADADTAIINAEAGGONNSEKK 420  
QY 421 EYF 423  
|  
|  
|  
Db 421 EYF 423

## RESULT 2

US-09-778-187b-4  
Sequence 4, Application US/09778187B  
Patent No. US20020168712A1  
GENERAL INFORMATION:  
APPLICANT: Baum, Peter R.  
TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM  
FILE REFERENCE: 2873-US  
CURRENT APPLICATION NUMBER: US/09/778, 187B  
CURRENT FILING DATE: 2001-02-06  
PRIOR APPLICATION NUMBER: PCT/US99/17905  
PRIOR FILING DATE: 1999-08-05  
PRIOR APPLICATION NUMBER: US 60/095, 672  
PRIOR FILING DATE: 1998-08-07  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn version 3.1  
SEQ ID NO 4  
LENGTH: 423  
TYPE: PRT  
ORGANISM: mus musculus  
US-09-778-187b-4

Query Match 100.0%; Score 2197; DB 9; Length 423;  
Best Local Similarity 100.0%; Pred. No. 5e-128;  
Matches 423; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 AAPPGLRLRLLLLSAALIPTGQGNLFTKDVYIEGEVATISQVWKSDDSVIQLLN 60  
|  
|  
|  
Db 1 AAPPGLRLRLLLLSAALIPTGQGNLFTKDVYIEGEVATISQVWKSDDSVIQLLN 60  
QY 61 PNRQTIYFRDPRPLKDSRFQNLNFSSELKVSILTVNISIDEGRYFCQLYTDPQESYTTI 120  
|  
|  
|  
Db 61 PNRQTIYFRDPRPLKDSRFQNLNFSSELKVSILTVNISIDEGRYFCQLYTDPQESYTTI 120  
QY 121 TVLVPFRNLMDIQKDTAVGEIEVNCCTAMASKPATITIRWFGKNELKSGSEVEESDM 180  
|  
|  
|  
Db 121 TVLVPFRNLMDIQKDTAVGEIEVNCCTAMASKPATITIRWFGKNELKSGSEVEESDM 180  
QY 121 TVLVPFRNLMDIQKDTAVGEIEVNCCTAMASKPATITIRWFGKNELKSGSEVEESDM 180  
|  
|  
|  
Db 121 TVLVPFRNLMDIQKDTAVGEIEVNCCTAMASKPATITIRWFGKNELKSGSEVEESDM 180  
QY 181 YTVTSQMLKVHKEDDGVPIQVHEPVAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLTR 240  
|  
|  
|  
Db 181 YTVTSQMLKVHKEDDGVPIQVHEPVAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLTR 240  
QY 241 EGDAPFELTCEAIKGPQVMTWVRVDDMPQHAVLSGPNLFINNLTNGTNGTYRCEASNI 300  
|  
|  
|  
Db 241 EGDAPFELTCEAIKGPQVMTWVRVDDMPQHAVLSGPNLFINNLTNGTNGTYRCEASNI 300  
QY 301 VGRASDYMLYVVDPTTTPPTTT 360  
|  
|  
|  
Db 301 VGRASDYMLYVVDPTTTPPTTT 360  
QY 361 GVAVAVVVFAMLCIIILIGRYFARHKGTFTTHEAKGADDAADADTAIINAEAGGONNSEKK 420  
|  
|  
|  
Db 361 GVAVAVVVFAMLCIIILIGRYFARHKGTFTTHEAKGADDAADADTAIINAEAGGONNSEKK 420  
QY 421 EYF 423

Db 421 EYF 423

## RESULT 3

US-09-778-510-20  
Sequence 20, Application US/09778510  
Patent No. US20020164686A1  
GENERAL INFORMATION:  
APPLICANT: Baum, Peter  
TITLE OF INVENTION: Molecules Designated B7L1  
FILE REFERENCE: 2844-US  
CURRENT APPLICATION NUMBER: US/09/778, 510  
CURRENT FILING DATE: 2001-02-07  
PRIOR APPLICATION NUMBER: PCT/US99/17906  
PRIOR FILING DATE: 1999-08-05  
PRIOR APPLICATION NUMBER: 60/095, 663  
PRIOR FILING DATE: 1998-08-07  
NUMBER OF SEQ ID NOS: 22  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 20  
LENGTH: 442  
TYPE: PRT  
ORGANISM: Homo sapien  
US-09-778-510-20

Query Match 98.7%; Score 2169; DB 9; Length 442;  
Best Local Similarity 98.8%; Pred. No. 2.8e-126;  
Matches 418; Conservative 1; Mismatches 4; Indels 0; Gaps 0;

QY 1 AAPPGLRLRLLLLSAALIPTGQGNLFTKDVYIEGEVATISQVWKSDDSVIQLLN 60  
|  
|  
|  
Db 19 AAPPGLRLRLLLLSAALIPTGQGNLFTKDVYIEGEVATISQVWKSDDSVIQLLN 78  
QY 61 PNRQTIYFRDPRPLKDSRFQNLNFSSELKVSILTVNISIDEGRYFCQLYTDPQESYTTI 120  
|  
|  
|  
Db 79 PNRQTIYFRDPRPLKDSRFQNLNFSSELKVSILTVNISIDEGRYFCQLYTDPQESYTTI 138  
QY 121 TVLVPFRNLMDIQKDTAVGEIEVNCCTAMASKPATITIRWFGKNELKSGSEVEESDM 180  
|  
|  
|  
Db 139 TVLVPFRNLMDIQKDTAVGEIEVNCCTAMASKPATITIRWFGKNELKSGSEVEESDM 198  
QY 181 YTVTSQMLKVHKEDDGVPIQVHEPVAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLTR 240  
|  
|  
|  
Db 199 YTVTSQMLKVHKEDDGVPIQVHEPVAVTGNLQTORYLEVOYKPOVHIQMTYPLQGLTR 258  
QY 241 EGDAPFELTCEAIKGPQVMTWVRVDDMPQHAVLSGPNLFINNLTNGTNGTYRCEASNI 300  
|  
|  
|  
Db 259 EGDAPFELTCEAIKGPQVMTWVRVDDMPQHAVLSGPNLFINNLTNGTNGTYRCEASNI 318  
QY 301 VGRASDYMLYVVDPTTTPPTTT 360  
|  
|  
|  
Db 319 VGRASDYMLYVVDPTTTPPTTT 378  
QY 361 GVAVAVVVFAMLCIIILIGRYFARHKGTFTTHEAKGADDAADADTAIINAEAGGONNSEKK 420  
|  
|  
|  
Db 379 GVAVAVVVFAMLCIIILIGRYFARHKGTFTTHEAKGADDAADADTAIINAEAGGONNSEKK 438  
QY 421 EYF 423  
|  
|  
|  
Db 439 EYF 441

## RESULT 4

US-09-778-187b-2  
Sequence 2, Application US/09778187B  
Patent No. US20020168712A1  
GENERAL INFORMATION:  
APPLICANT: Baum, Peter R.  
TITLE OF INVENTION: MOLECULES DESIGNATED LDCAM  
FILE REFERENCE: 2873-US  
CURRENT APPLICATION NUMBER: US/09/778, 187B

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Comugen Ltd.

OM protein - protein search, using sw model

Run on: June 3, 2003, 10:15:57 ; Search time 12.2636 Seconds  
(without alignments)  
1060.451 Million cell updates/sec

Title: US-09-778-187B-2

Perfect score: 2283 1 MASVVLPSGSCCAAAAAAAAA.....AIIINEGGONSEKKEYFI 442

Sequence: BL0SUM62

Scoring table: Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-Processing: Minimum Match 0%  
Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/1aa/58-COMB.pep.\*  
2: /cgn2\_6/prodata/1/1aa/58-COMB.pep.\*  
3: /cgn2\_6/prodata/1/1aa/6A-COMB.pep.\*  
4: /cgn2\_6/prodata/1/1aa/6A-COMB.pep.\*  
5: /cgn2\_6/prodata/1/1aa/PCTUS-COMB.pep.\*  
6: /cgn2\_6/prodata/1/1aa/backfile1.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	902	39.5	444	2	US-08-659-984A-5
2	902	39.5	444	4	US-08-660-531-5
3	895.5	39.2	421	2	US-08-659-984A-1
4	895.5	39.2	421	4	US-08-660-531-1
5	232	10.2	393	1	US-08-429-742-2
6	222	9.7	458	4	US-09-435-956A-1
7	208	9.1	388	1	US-08-429-742-4
8	206	9.0	642	1	US-08-217-299-1
9	206	9.0	698	2	US-08-602-725-36
10	206	9.0	734	2	US-08-389-459A-17
11	206	9.0	734	3	US-08-987-867A-17
12	200.5	8.8	308	2	US-08-414-657D-46
13	200.5	8.8	325	2	US-08-414-657D-2
14	200.5	8.8	325	2	US-08-414-657D-41
15	200.5	8.8	325	2	US-08-414-657D-41
16	199.5	8.7	338	2	US-08-414-657D-42
17	199.5	8.7	338	2	US-08-414-657D-43
18	199.5	8.7	338	4	US-09-135-080-4
19	199.5	8.7	1241	4	US-09-040-774-2
20	198.5	8.7	315	2	US-08-414-657D-47
21	198.5	8.7	408	4	US-09-724-864-62
22	197.5	8.7	338	2	US-08-414-657D-60
23	197.5	8.7	338	4	US-09-135-080-8
24	197.5	8.6	583	2	US-08-432-016-2
25	197.5	8.6	583	2	US-08-684-594-2
26	195.5	8.6	1651	4	US-09-540-245A-18
27	193.5	8.5	1395	4	US-09-540-245A-15

28	186	8.1	1447	4	US-09-041-886-25	Sequence 25, Appl
29	186	8.1	1447	5	PCT-US94-05277-2	Sequence 2, Appl
30	185	8.1	287	2	US-08-414-657D-48	Sequence 48, Appl
31	185	8.1	304	2	US-08-414-657D-44	Sequence 44, Appl
32	185	8.1	431	4	US-09-038-832-2	Sequence 4, Appl
33	185	8.1	431	4	US-09-038-832-4	Sequence 4, Appl
34	184	8.1	310	2	US-08-414-657D-45	Sequence 45, Appl
35	183	8.0	287	2	US-08-414-657D-49	Sequence 49, Appl
36	182.5	8.0	477	2	US-08-432-016-3	Sequence 3, Appl
37	182.5	8.0	477	2	US-08-684-594-3	Sequence 3, Appl
38	179.5	7.9	1297	4	US-09-540-245A-17	Sequence 16, Appl
39	178	7.8	869	1	US-08-374-834-16	Sequence 16, Appl
40	178	7.8	869	2	US-08-644-271-29	Sequence 29, Appl
41	178	7.8	869	4	US-09-077-955-33	Sequence 33, Appl
42	176.5	7.7	478	5	PCT-US95-08493-15	Sequence 15, Appl
43	176.5	7.7	860	5	PCT-US95-08493-19	Sequence 19, Appl
44	176.5	7.7	868	5	PCT-US95-08493-21	Sequence 21, Appl
45	175.5	7.7	607	2	US-08-752-307B-12	Sequence 12, Appl

#### ALIGNMENTS

RESULT 1  
US-08-659-984A-5  
Sequence 5, Application US/08659984A  
Patent No. 5942400  
GENERAL INFORMATION:  
APPLICANT: Anderson, John P.  
APPLICANT: Sinha, Sukanto  
APPLICANT: Jacobson-Crook, Kirsten L.  
TITLE OF INVENTION: Assays for Detecting Beta-Secretase  
TITLE OF INVENTION: Inhibition  
NUMBER OF SEQUENCES: 21  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Townsend and Townsend and Crew LLP  
STREET: Two Embarcadero Ctr., 8th Floor  
CITY: San Francisco  
STATE: California  
COUNTRY: USA  
ZIP: 94111-3834  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.25  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/659,984A  
FILING DATE: 07-JUN-1996  
CLASSIFICATION: 436  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/485,152  
FILING DATE: 07-JUN-1995  
ATTORNEY/AGENT INFORMATION:  
NAME: Healin, James M.  
REGISTRATION NUMBER: 29,541  
REFERENCE/DOCKET INFORMATION: 15270-002810US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-326-2400  
TELEFAX: 415-326-2422  
INFORMATION FOR SEQ ID NO: 5:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 444 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-08-659-984A-5

Query Match 39.5%; Score 902; DB 2; Length 444;  
Best Local Similarity 44.6%; Pred. No. 5.9e-71;  
Matches 194; Conservative 74; Mismatches 137; Indels 30; Gaps 7;



GenCore version 5.1.6  
Copyright (c) 1993 - 2003 CompuGen Ltd.

## OM protein - protein search, using sw model

Run on: June 3, 2003, 10:23:23 ; Search time 19.4173 Seconds  
(without alignments)  
2304.171 Million cell updates/sec

Title: US-09-778-187B-2

Perfect score: 2283 1 MASVLPSSGSCAAAAA.....AIIINAGGONNSEKEYFI 442

Sequence: 1 MASVLPSSGSCAAAAA.....AIIINAGGONNSEKEYFI 442

Scoring table: BLOSUM62  
Gap 10.0, Gapext 0.5

Searched: 383519 seqs, 101223694 residues

T number of hits satisfying chosen parameters: 383519

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

## Database:

Published Applications AA:  
1: /cgn2\_6/prodata/1/pubpaa/US08\_NEW\_PUB pep: \*  
2: /cgn2\_6/prodata/1/pubpaa/PCT\_NEW\_PUB pep: \*  
3: /cgn2\_6/prodata/1/pubpaa/US06\_NEW\_PUB pep: \*  
4: /cgn2\_6/prodata/1/pubpaa/US06\_PUBCOMB pep: \*  
5: /cgn2\_6/prodata/1/pubpaa/US07\_NEW\_PUB pep: \*  
6: /cgn2\_6/prodata/1/pubpaa/US07\_PUBCOMB pep: \*  
7: /cgn2\_6/prodata/1/pubpaa/PCTUS\_PUBCOMB pep: \*  
8: /cgn2\_6/prodata/1/pubpaa/US08\_PUBCOMB pep: \*  
9: /cgn2\_6/prodata/1/pubpaa/US09\_NEW\_PUB pep: \*  
10: /cgn2\_6/prodata/1/pubpaa/US09\_PUBCOMB pep: \*  
11: /cgn2\_6/prodata/1/pubpaa/US10\_NEW\_PUB pep: \*  
12: /cgn2\_6/prodata/1/pubpaa/US10\_PUBCOMB pep: \*  
13: /cgn2\_6/prodata/1/pubpaa/US60\_NEW\_PUB pep: \*  
14: /cgn2\_6/prodata/1/pubpaa/US60\_PUBCOMB pep: \*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2283	100.0	442	9	US-09-778-510-20
2	2283	100.0	442	9	US-09-778-187B-2
3	2283	100.0	442	9	US-09-984-130-136
4	2263	99.1	440	9	US-09-944-113-61
5	2263	99.1	440	9	US-09-944-403-61
6	2263	99.1	440	9	US-09-944-896-61
7	2263	99.1	440	9	US-09-944-944-61
8	2263	99.1	440	9	US-09-944-907-61
9	2263	99.1	440	9	US-09-944-929-61
10	2263	99.1	440	9	US-10-174-590-34
11	2263	99.1	440	9	US-10-176-758-34
12	2263	99.1	440	9	US-10-175-737-34
13	2263	99.1	440	9	US-10-173-706-34
14	2263	99.1	440	9	US-10-175-738-34
15	2263	99.1	440	9	US-10-175-752-34
16	2263	99.1	440	9	US-10-176-482-34
17	2263	99.1	440	9	US-10-176-757-34
18	2263	99.1	440	9	US-10-176-913-34
19	2263	99.1	440	9	US-10-180-552-34

20	2263	99.1	440	9	US-10-180-557-34	Sequence 34, Appl
21	2263	99.1	440	9	US-10-173-700-34	Sequence 34, Appl
22	2263	99.1	440	9	US-10-174-572-34	Sequence 34, Appl
23	2263	99.1	440	9	US-10-174-579-34	Sequence 34, Appl
24	2263	99.1	440	9	US-10-174-582-34	Sequence 34, Appl
25	2263	99.1	440	9	US-10-174-588-34	Sequence 34, Appl
26	2263	99.1	440	9	US-10-175-739-34	Sequence 34, Appl
27	2263	99.1	440	9	US-10-175-740-34	Sequence 34, Appl
28	2263	99.1	440	9	US-10-175-743-34	Sequence 34, Appl
29	2263	99.1	440	9	US-10-176-488-34	Sequence 34, Appl
30	2263	99.1	440	9	US-10-176-492-34	Sequence 34, Appl
31	2263	99.1	440	9	US-10-176-747-34	Sequence 34, Appl
32	2263	99.1	440	9	US-10-176-750-34	Sequence 34, Appl
33	2263	99.1	440	9	US-10-176-985-34	Sequence 34, Appl
34	2263	99.1	440	9	US-10-176-987-34	Sequence 34, Appl
35	2263	99.1	440	9	US-10-176-991-34	Sequence 34, Appl
36	2263	99.1	440	9	US-10-176-992-34	Sequence 34, Appl
37	2263	99.1	440	9	US-10-176-993-34	Sequence 34, Appl
38	2263	99.1	440	9	US-10-184-658-34	Sequence 34, Appl
39	2263	99.1	440	9	US-10-173-695-34	Sequence 34, Appl
40	2263	99.1	440	9	US-10-173-697-34	Sequence 34, Appl
41	2263	99.1	440	9	US-10-173-705-34	Sequence 34, Appl
42	2263	99.1	440	9	US-10-174-576-34	Sequence 34, Appl
43	2263	99.1	440	9	US-10-174-585-34	Sequence 34, Appl
44	2263	99.1	440	9	US-10-174-586-34	Sequence 34, Appl
45	2263	99.1	440	9	US-10-175-747-34	Sequence 34, Appl

## ALIGNMENTS

RESULT 1  
US-09-778-510-20  
; Sequence 20, Application US/09778510  
; Patent No. US20020164686A1  
; GENERAL INFORMATION:  
; APPLICANT: Baum, Peter  
; TITLE OF INVENTION: Molecules Designated B7L1  
; FILE REFERENCE: 2844-US  
; CURRENT APPLICATION NUMBER: US/09/778,510  
; PRIOR FILING DATE: 2001-02-07  
; PRIOR APPLICATION NUMBER: PCT/US99/17906  
; PRIOR FILING DATE: 1999-08-05  
; PRIOR APPLICATION NUMBER: 60/095,663  
; NUMBER OF SEQ ID NOS: 1998-08-07  
; SOFTWARE: Patent In Ver. 2.0  
; SEQ ID NO 20  
; LENGTH: 442  
; TYPE: PRT  
; ORGANISM: Homo sapien  
US-09-778-510-20

		100.0%;	Score 2283;	DB 9;	Length 442;																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
--	--	---------	-------------	-------	-------------	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

QY 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOVMTWVRVDDEMPQHAVALSGPULFI 300  
|  
|  
|  
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOVMTWVRVDDEMPQHAVALSGPULFI 300  
QY 301 NNINKTNGTYRCASNIYGKASDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTT 360  
|  
|  
|  
Db 301 NNINKTNGTYRCASNIYGKASDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTT 360  
QY 361 SRAGEEGSIRAVDAVAVGVAVVVFAMLCIIILGRYFAHKGTYFTHEAKGADDAADA 420  
|  
|  
|  
Db 361 SRAGEEGSIRAVDAVAVGVAVVVFAMLCIIILGRYFAHKGTYFTHEAKGADDAADA 420  
QY 421 DTAINAEGGONNSEKEKEYFI 442  
|  
|  
|  
Db 421 DTAINAEGGONNSEKEKEYFI 442

## RESULT 2

US-09-778-187b-2

Sequence 2, Application US/09778187B  
Patent No. US20020168712A1

GENERAL INFORMATION:

APPLICANT: Baum, Peter R.  
TITLE OF INVENTION: MOLECULES DESIGNATED LDCA  
FILE REFERENCE: 2873-US  
CURRENT APPLICATION NUMBER: US/09/778, 187B  
CURRENT FILING DATE: 2001-02-06  
PRIOR APPLICATION NUMBER: PCT/US99/17905  
PRIOR FILING DATE: 1999-08-05  
PRIOR APPLICATION NUMBER: US 60/095,672  
PRIOR FILING DATE: 1998-08-07  
NUMBER OF SEQ ID NOS: 10  
SOFTWARE: PatentIn version 3.1  
LENGTH: 442  
TYPE: PRT  
ORGANISM: homo sapiens  
US-09-778-187b-2

Query Match 100.0%; Score 2283; DB 9; Length 442;

Best Local Similarity 100.0%; Pred. No. 4,5e-130;

Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVLPSSGSCAAAAAAPPGLRLRLILFLSAAALIPFGDQNLFTKDVTVIEGEVA 60  
|  
|  
|  
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLILFLSAAALIPFGDQNLFTKDVTVIEGEVA 60  
QY 61 TISQVNSKSDSVIQLNPNRQTIYFRDPPLKDSRFQNLNFSSELKVSILNVSISDEG 120  
|  
|  
|  
Db 61 TISQVNSKSDSVIQLNPNRQTIYFRDPPLKDSRFQNLNFSSELKVSILNVSISDEG 120  
QY 121 RYFCOLYTDPPQBSYTTITVLVPRNLMIDIQKOTAVEGEIEVNCTAMASKPATITRMF 180  
|  
|  
|  
Db 121 RYFCOLYTDPPQBSYTTITVLVPRNLMIDIQKOTAVEGEIEVNCTAMASKPATITRMF 180  
QY 181 KGNTELKGSKEVEWSDMTVTISQMLKVHKEDDGVVICQVEHPAVTGNLQORYLEVQ 240  
|  
|  
|  
Db 181 KGNTELKGSKEVEWSDMTVTISQMLKVHKEDDGVVICQVEHPAVTGNLQORYLEVQ 240  
QY 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOVMTWVRVDDEMPQHAVALSGPULFI 300  
|  
|  
|  
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOVMTWVRVDDEMPQHAVALSGPULFI 300  
QY 301 NNINKTNGTYRCASNIYGKASDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTT 360  
|  
|  
|  
Db 301 NNINKTNGTYRCASNIYGKASDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTT 360  
QY 361 SRAGEEGSIRAVDAVAVGVAVVVFAMLCIIILGRYFAHKGTYFTHEAKGADDAADA 420  
|  
|  
|  
Db 361 SRAGEEGSIRAVDAVAVGVAVVVFAMLCIIILGRYFAHKGTYFTHEAKGADDAADA 420  
QY 421 DTAINAEGGONNSEKEKEYFI 442  
|  
|  
|

Db 421 DTAINAEGGONNSEKEKEYFI 442

## RESULT 3

US-09-984-130-136

Sequence 136, Application US/09984130  
Patent No. US2003055231A1

GENERAL INFORMATION:

APPLICANT: Ni et al.

TITLE OF INVENTION: 12 Human Secreted Proteins

FILE REFERENCE: PR499P2

CURRENT APPLICATION NUMBER: US/09/984,130

CURRENT FILING DATE: 2001-10-29

PRIOR APPLICATION NUMBER: 60/243,792

PRIOR FILING DATE: 2000-10-30

PRIOR APPLICATION NUMBER: 09/836,353

PRIOR FILING DATE: 2001-04-18

PRIOR APPLICATION NUMBER: 60/198,407

PRIOR FILING DATE: 2000-04-19

PRIOR APPLICATION NUMBER: PCT/US99/25031

PRIOR FILING DATE: 1999-10-27

PRIOR APPLICATION NUMBER: 60/105,971

PRIOR FILING DATE: 1998-10-28

NUMBER OF SEQ ID NOS: 149

SOFTWARE: PatentIn Ver. 2.0

SEQ ID NO 136

LENGTH: 442

TYPE: PRT

ORGANISM: Homo sapiens

US-09-984-130-136

Query Match 100.0%; Score 2283; DB 9; Length 442;

Best Local Similarity 100.0%; Pred. No. 4,5e-130;

Matches 442; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MASVLPSSGSCAAAAAAPPGLRLRLILFLSAAALIPFGDQNLFTKDVTVIEGEVA 60  
|  
|  
|  
Db 1 MASVLPSSGSCAAAAAAPPGLRLRLILFLSAAALIPFGDQNLFTKDVTVIEGEVA 60  
QY 61 TISQVNSKSDSVIQLNPNRQTIYFRDPPLKDSRFQNLNFSSELKVSILNVSISDEG 120  
|  
|  
|  
Db 61 TISQVNSKSDSVIQLNPNRQTIYFRDPPLKDSRFQNLNFSSELKVSILNVSISDEG 120  
QY 121 RYFCOLYTDPPQBSYTTITVLVPRNLMIDIQKOTAVEGEIEVNCTAMASKPATITRMF 180  
|  
|  
|  
Db 121 RYFCOLYTDPPQBSYTTITVLVPRNLMIDIQKOTAVEGEIEVNCTAMASKPATITRMF 180  
QY 181 KGNTELKGSKEVEWSDMTVTISQMLKVHKEDDGVVICQVEHPAVTGNLQORYLEVQ 240  
|  
|  
|  
Db 181 KGNTELKGSKEVEWSDMTVTISQMLKVHKEDDGVVICQVEHPAVTGNLQORYLEVQ 240  
QY 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOVMTWVRVDDEMPQHAVALSGPULFI 300  
|  
|  
|  
Db 241 YKPOVHIQMTYPLQGLTREGDALELTCEAIGKPOVMTWVRVDDEMPQHAVALSGPULFI 300  
QY 301 NNINKTNGTYRCASNIYGKASDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTT 360  
|  
|  
|  
Db 301 NNINKTNGTYRCASNIYGKASDYMLYVDPPTTIPPTTTTTTTTTTTTTTTTTTTTT 360  
QY 361 SRAGEEGSIRAVDAVAVGVAVVVFAMLCIIILGRYFAHKGTYFTHEAKGADDAADA 420  
|  
|  
|  
Db 361 SRAGEEGSIRAVDAVAVGVAVVVFAMLCIIILGRYFAHKGTYFTHEAKGADDAADA 420  
QY 421 DTAINAEGGONNSEKEKEYFI 442  
|  
|  
|  
Db 421 DTAINAEGGONNSEKEKEYFI 442

## RESULT 4

US-09-944-413-61

Sequence 61, Application US/09944413

Patent No. US20020156004A1

GenCore version 5.1.6  
Copyright (c) 1993 - 2003 Comugen Ltd.

## OM protein - protein search, using sw model

Run on: June 3, 2003, 10:15:57 ; Search time 11.7364 Seconds  
(without alignments)  
1060.451 Million cell updates/sec

Title: US-09-778-187B-4

Perfect score: 2197  
Sequence: 1 AAPGRLRLLLLLLSAAL.....TALINAGGONNSEKEYF 423Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 262574 seqs, 29422922 residues

1 number of hits satisfying chosen parameters: 262574

Minimum DB seq length: 0  
Maximum DB seq length: 200000000Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

## Database :

Issued Patents AA: \*  
1: /cgn2\_6/prodata/1/aa/5A-COMB.pep.\*  
2: /cgn2\_6/prodata/1/aa/5B-COMB.pep.\*  
3: /cgn2\_6/prodata/1/aa/6A-COMB.pep.\*  
4: /cgn2\_6/prodata/1/aa/6B-COMB.pep.\*  
5: /cgn2\_6/prodata/1/aa/PCTUS-COMB.pep.\*  
6: /cgn2\_6/prodata/1/aa/backfile1.pep.\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	904	41.1	444	2	US-08-659-984A-5
2	904	41.1	444	4	US-08-660-531-5
3	893.5	40.7	421	2	US-08-659-984A-1
4	893.5	40.7	421	4	US-08-660-531-1
5	231.5	10.5	393	1	US-08-429-742-2
6	216	9.8	458	4	US-09-435-956A-1
7	206.5	9.4	308	2	US-08-414-657D-46
8	206.5	9.4	335	2	US-08-414-657D-2
9	206.5	9.4	325	2	US-08-414-657D-41
10	206.5	9.4	325	4	US-09-135-080-2
11	206	9.4	388	1	US-08-429-742-4
12	204.5	9.3	315	2	US-08-414-657D-47
13	204.5	9.3	328	2	US-08-414-657D-42
14	204.5	9.3	338	4	US-08-414-657D-43
15	204.5	9.3	338	4	US-09-135-080-4
16	204	9.3	642	1	US-08-217-299-1
17	204	9.3	698	2	US-08-189-459A-17
18	204	9.3	734	2	US-08-602-725-36
19	204	9.3	734	2	US-08-987-867A-17
20	203.5	9.3	563	2	US-08-432-016-2
21	203.5	9.3	563	2	US-08-684-594-2
22	198.5	9.0	338	2	US-08-414-657D-60
23	198.5	9.0	338	4	US-09-135-080-8
24	196.5	8.9	1241	4	US-09-040-774-2
25	193	8.8	1395	4	US-09-540-245A-15
26	192	8.7	1651	4	US-09-540-245A-18
27	188	8.6	408	4	US-09-724-864-62

28	187	8.5	287	2	US-08-414-657D-48	Sequence 48, App1
29	187	8.5	304	2	US-08-414-657D-44	Sequence 44, App1
30	185	8.4	287	2	US-08-414-657D-49	Sequence 49, App1
31	185	8.4	310	2	US-08-414-657D-45	Sequence 45, App1
32	183.5	8.4	477	2	US-08-432-016-3	Sequence 3, App1
33	183.5	8.4	477	2	US-08-684-594-3	Sequence 3, App1
34	183.5	8.4	1297	4	US-09-540-245A-17	Sequence 17, App1
35	182.5	8.3	431	4	US-09-038-832-2	Sequence 4, App1
36	182.5	8.3	431	4	US-09-038-832-4	Sequence 4, App1
37	177	8.1	1447	5	US-09-041-886-25	Sequence 25, App1
38	177	8.1	1447	5	PCT-US94-05277-2	Sequence 2, App1
39	176.5	8.0	607	2	US-08-752-307B-12	Sequence 12, App1
40	176.5	8.0	607	4	US-09-707-802-12	Sequence 12, App1
41	176.5	8.0	607	4	US-09-991-326-12	Sequence 12, App1
42	174.5	7.9	478	5	PCT-US95-08493-15	Sequence 15, App1
43	174.5	7.9	860	5	PCT-US95-08493-19	Sequence 19, App1
44	174.5	7.9	868	5	PCT-US95-08493-21	Sequence 21, App1
45	172.5	7.9	869	1	US-08-374-834-16	Sequence 16, App1

## ALIGNMENTS

RESULT 1  
US-08-659-984A-5  
; Sequence 5, Application US/08659984A  
; Patent No. 5942400  
; GENERAL INFORMATION:  
; APPLICANT: Anderson, John P.  
; APPLICANT: Sinha, Sukanto  
; APPLICANT: Jacobson-Croak, Kirsten L.  
; TITLE OF INVENTION: Assays for Detecting Beta-Secretase  
; TITLE OF INVENTION: Inhibition  
; NUMBER OF SEQUENCES: 21  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: Townsend and Townsend and Crew LLP  
; STREET: Two Embarcadero Ctr., 8th Floor  
; CITY: San Francisco  
; STATE: California  
; COUNTRY: USA  
; ZIP: 94111-3834  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/659,984A  
; FILING DATE: 07-JUN-1996  
; CLASSIFICATION: 436  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/485,152  
; FILING DATE: 07-JUN-1995  
; ATTORNEY/AGENT INFORMATION:  
; NAME: Heslin, James M.  
; REGISTRATION NUMBER: 29,541  
; REFERENCE/DOCKET NUMBER: 15270-002810US  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 415-326-2400  
; TELEFAX: 415-326-2422  
; INFORMATION FOR SEQ ID NO: 5:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 444 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: linear  
; MOLECULE TYPE: protein  
; US-08-659-984A-5

Query Match 41.1%; Score 904; DB 2; Length 444;  
Best Local Similarity 44.7%; Pred. No. 2.8e-72;  
Matches 194; Conservative 74; Mismatches 136; Indels 30; Gaps 7;

```

0Y 13 LLLSAAA---LITGQOMLFTKDVIIVIGEVAATISCOVKNKSDSVIOLNPNQTIYR 69
Db 17 LLLQAAASKKVKVGSQGFPLTONVYVEGGTALLILTCVQDNNTSLQMSNPAQOTLYD 76
0Y 70 DFRPLKDSRPOLNPFSSSELKSLTNVSISSDEGRYFCOLYTPDPOESYTTITVLVPRNL 122
Db 77 DKKALRDNRLTELVRASWHELSISVSLSDEQYCSLFTPMVYTSALYLTVLVGEKP 136
0Y 130 MIDIQDTAYEGEIEJNCTAMASKPATITRMKNGKELKSGSEYEMS---DMWTYTSQ 186
Db 137 QISCFSSPWNEGDMQJLCTKSGSKRPAADIRMKDKDKELDKVYKKEEDANKRTFYVST 196
0Y 187 LMLKXHEKEDGVPIQVHEPAVATGNLQ--TORYLEVOYKPRVHNIOMTYPLQGLTREGDAF 245
Db 197 LDFPRVDSDDGVAVICRVDHESLNATPQVAMQYLEIHYTPSVK---IPSTPPRQEGPL 253
0Y 246 ELTCEALGKQKQPMVMTWVRVDDM--PQNAVLSGPNLPLNLTNKDNGTGRCSASNIVGK 302
Db 254 ILTCESGKPLPEPVMTWKDQGBLPDPBMYVSGRELNLFLNKDNGTGRCEAINTIGQ 313
0Y 304 AHSYMLYVVDPTTIPPTPTTTTTTTTTTTTTLITIT-----DSRAGEB 349
Db 314 SSAEYVLIIVADVNTLITPTIIPSLTAVITTVATITSPITTSATSSIRPNMALAONG 373
0Y 350 TIGAVDHAIVGVAVVVFAMLCLLIILGRYFRHKGYFTHEAKGADDAADADTAIINA 405
Db 374 P---DHALIGIVAVVVFVTLCSIFLERLYLAFHKGYLVITWEAKGADADADADTAIINA 425
0Y 410 EGGONNSEKKKEYP 423
Db 430 EGSQVNAEKKKEYP 443

```

RESULT 2  
 US-08-660-531-5  
 Sequence 5, Application US/08660531  
 Patent No. 6221645  
 GENERAL INFORMATION:  
 APPLICANT: Chryslers, Susanna M.S.  
 APPLICANT: Sinha, Sukanto  
 APPLICANT: Keim, Pamela S.  
 APPLICANT: Anderson, John P.  
 TITLE OF INVENTION: Beta-Secretase  
 NUMBER OF SEQUENCES: 21  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Townsend and Townsend and Crew LLP  
 STREET: Two Embarcadero Ctr., 8th Floor  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111-3834  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 OPERATING SYSTEM: IBM PC compatible  
 SOFTWARE: Patent Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/660,531  
 FILING DATE:  
 CLASSIFICATION: 435  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/480,498  
 FILING DATE: 07-JUN-1995  
 ATTORNEY/AGENT INFORMATION:  
 NAME: Heslin, James M.  
 REGISTRATION NUMBER: 29,541  
 REFERENCE/DOCKET NUMBER: 15270-002210US  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 415-326-2400  
 TELEFAX: 415-326-2422  
 INFORMATION FOR SEQ ID NO: 5:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 444 amino acids

```

;      TYPE: amino acid
;      STRANDEDNESS: single
;      TOPOLOGY: linear
;      MOLECULE TYPE: protein
US-08-660-531-5

```

Query Match	41.1%	Score 904	DB 4	length 444
Best Local Similarity	44.7%	Pred. No. 2.8e-72		
Matches 194	Conservative 74	Mismatches 136	Indels 30	Gaps 7

Qy	13	LLLSAAA---L1PTGCGQLPFXDVTYVEGEVATISCOVNSDSOSVQLNPNQOTIYFR	69
Db	17	LLLGAAASNNKXKKGSGGQFPLTQNTYVEGGTALITCRVDQNDNTSIQMSNPAQTLIYFD	76
Qy	70	DFRPLKDSRPQLINSSSEFLKVSILTNVSIISDEGRYCOLYTDPOESYTTITVLVPPRL	129
Db	77	DKKALNDNRNIEIYRASWHELSISVSDVLSDEGGYTCSLFTMPAKTSAIYTLVGVPEKR	136
Qy	130	MIDIQDRTAVEGEIEVNCTAMASRPATTIRPFKNKELKCKSEVEEMS---DWYATYSQ	186
Db	137	QISGFSSPWEGEGLDMLQITKTSIGSKSPAADIRFKAKDKIKVYKLUKEEDANKRTFYVST	196
Qy	187	LMUKYAKEDDQVPIICQVHPAVTGNLQ--TORYLEVOYKPOVHIQMTYVLOGITREGDAF	245
Db	197	LDPRVYRSDPDGAVIICRVDSHSLNATPQAVQVLEIHYTPSVKI---IPSTPFEQEQPL	253
Qy	246	ELTCEALIGRPQPMYTWKRVDEEM--POHAYLSGNLFINNLANTDNGYRCESNIVGK	303
Db	254	ILTCESKGRPLPEPVLMTKDGELDPDRMVVSGEMLILFLNKTDNGYRCESNTNYGQ	313
Qy	304	AHSQDMLVYVDPEPTIIPREPTTTTTTTTTTTTTLILIR-----DSRAGEEG	349
Db	314	SSAEVYLIYHDVPTNLLPFTIIPSLTITVTTVYATISPTSATSSIRDPNMAAQNG	373
Qy	350	TIGAVDHAVIGGVAVVVPALCLIIIGRIPARKGYTFHEAKGADDAADADATAIINA	409
Db	374	P----DHAIGIGVAVVVFVLTCSIFLLGRYLARKGYTLTNEAKGADAPDADATAIINA	429
Qy	410	EGGONNSEKKYF	423
Db	430	EGSQVNAEKKYF	443

RESULT 3  
 US-08-659-984A-1  
 Sequence 1, Application US/08659984A  
 Patent No. 5942400  
 GENERAL INFORMATION:  
 APPLICANT: Anderson, John P.  
 APPLICANT: Sinha, Sukanto  
 APPLICANT: Jacobson-Crask, Kirsten L.  
 TITLE OF INVENTION: Assays for Detecting Beta-Secretase  
 TITLE OF INVENTION: Inhibition  
 NUMBER OF SEQUENCES: 21  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: Townsend and Townsend and Crew LLP  
 STREET: Two Embarcadero Ctr., 8th Floor  
 CITY: San Francisco  
 STATE: California  
 COUNTRY: USA  
 ZIP: 94111-3834  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: PatentIn Release #1.0, Version #1.25  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/08/659,984A  
 FILING DATE: 07-JUN-1996  
 CLASSIFICATION: 436  
 PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: US 08/485,152  
 FILING DATE: 07-JUN-1995